The interaction of markedness and experience in phonotactic judgments

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Product-oriented Universal Grammar

- Logic (cf. Chomsky 1965, Tesar and Smolensky 1998): People innately know some of the target grammar All they have to learn are the non-universal aspects
- Implication for markedness vs. lexical experience: The more unmarked an item, the less learners should pay attention to its lexical pattern: Competition
- · Prediction for adult phonotactic judgments:



Test 1: Southern Min ("Taiwanese")

- 20 native speakers of Southern Min (pre-tested for fluency)
- 255 non-lexical syllables (one per each logically possible bigram of Southern Min phonemes), presented auditorily: Markedness: Number of features different within bigrams (more = easier to distinguish perceptually = less marked) Lexical experience: Lexical bigram probability (observed / expected ratios; Frisch and Zawaydeh 2001)
- · Binary good/bad judgments of acceptability



Process-oriented Universal Learner

- Logic (cf. Slobin 1973, Hayes and Wilson 2008): People have innate learning biases, not innate grammar Learning language-specific patterns depends on these biases
- Implications for markedness vs. lexical experience:
- The more unmarked an item, the more learners should use it to learn lexical patterns: Cooperation
- Predictions for adult phonotactic judgments:



Test 2: Mandarin

- 16 native speakers of Taiwan Mandarin
- All 3,274 non-lexical syllables that can be written in the phonetic notation used in Taiwan (BPMF), presented visually in BPMF:
- Markedness: Number of languages in UPSID (Maddieson 1984) containing target's initial consonant (more = less marked)
- Lexical experience: Number of lexical neighbors (one segment different from target item; Vitevitch and Luce1999)
- · Binary good/bad judgments of acceptability



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